

## CLAIMS LISTING 2/9/02

1-5 (cancelled)

6. (currently amended) ~~The A~~ DNA sequence according to comprising the sequence of SEQ ID NO: 5.

7. (currently amended) A transformation vector containing comprising the sequence of SEQ ID NO: 5.

8-15 (cancelled)

16. (currently amended) A process for selecting yeast transformants useful in the production of a eukaryotic alkaline phosphatase, said process comprising the steps of:

- (a) transforming yeast cells with a vector comprising a ~~resistance~~ first marker gene ~~for a first selection marker~~ encoding resistance to a first antibiotic and ~~the an~~ alkaline phosphatase gene comprising a sequence selected from the group consisting of SEQ ID NO: 1 and SEQ ID NO: 5;
- (b) selecting transformants that grow in medium containing a first concentration of the first ~~selection marker~~ antibiotic;
- (c) further transforming the selected transformants with a vector comprising a ~~resistance~~ gene the first marker ~~for the first selection marker~~ and the alkaline phosphatase gene;
- (d) identifying transformants that have incorporated multiple copies of the alkaline phosphatase gene by selecting those ~~transformants~~ transformants that grow in medium containing a second concentration of the first ~~selection marker~~ antibiotic, said second concentration being higher than the first concentration;
- (e) further transforming the identified transformants with a vector comprising a ~~resistance~~ second marker gene ~~for~~ encoding resistance to a second selection marker antibiotic and the alkaline phosphatase gene; and

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(f) selecting transformants that grow in medium containing the second ~~selection marker~~ antibiotic.

17. (cancelled)

18. (cancelled)

19. (currently amended) The process as claimed in claim 16, wherein ~~methylotrophic~~ the yeast cells are ~~used~~ methylotrophic.

20. (currently amended) The process as claimed in claim 16, wherein the yeast cells are from ~~Pichia pastoris or Hansenula polymorpha is used as the yeast strain~~.

21. (currently amended) The process as claimed in claim 16, wherein the transformants that grow in medium containing the second ~~selection marker~~ antibiotic are transformed at least once more with a vector comprising ~~a resistance~~ the second marker gene for the second selection marker and the alkaline phosphatase gene and the transformants that grow in medium containing the second ~~selection marker~~ antibiotic are selected.

22. (currently amended) A process for selecting yeast transformants useful in the production of a eukaryotic alkaline phosphatase, said process comprising the steps of:

(a) transforming yeast cells more than one time with a vector comprising a ~~resistance marker gene for encoding resistance to a first selection marker~~ antibiotic and the an alkaline phosphatase gene comprising a sequence selected from the group consisting of SEQ ID NO: 1 and SEQ ID NO: 5;

(b) identifying transformants that have incorporated multiple copies of the alkaline phosphatase gene by selecting those ~~transformants~~ transformants that grow in medium containing a concentration of the first ~~selection marker~~ antibiotic that is higher than that used for selection of transformants that have incorporated a single copy of the alkaline phosphatase gene;

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- (c) further transforming the identified transformants with a vector comprising a ~~resistance marker gene for encoding resistance to a second selection marker antibiotic~~ and the alkaline phosphatase gene; and
- (d) selecting transformants that grow in medium containing the second ~~selection marker antibiotic~~.

23. (original) A process for the production of a eukaryotic alkaline phosphatase in yeast cells comprising the steps: ~~a)~~ of selecting a transformant using according to the process of claim 16, ~~21 or 22;~~ ~~b)~~ expressing the alkaline phosphatase; ~~and c), and~~ purifying the alkaline phosphatase.